AMENDMENT TO CLAIMS

Docket No.: 14113-00027-US

1. (Currently Amended) An oligomer or polymer comprising an optionally substituted first repeat unit of formula (Ir):

wherein R¹, R², R³ and R⁴, which may be the same or different, are independently selected from hydrogen or a substituent and two or more of R¹, R², R³ and R⁴ may be linked to form a ring and the oligomer or polymer comprises a second repeat unit.

- 2. (Previously presented) An oligomer or polymer according to claim 1 wherein each R^1 , R^2 , R^3 and R^4 is independently selected from the group consisting of optionally substituted alkyl, alkoxy, aryl, or heteroaryl.
- 3. (Previously presented) An oligomer or polymer according to claim 1, wherein at least one of R^1 , R^2 , R^3 and R^4 is optionally substituted phenyl or optionally substituted C_{1-20} alkyl.
- 4. (Withdrawn) An oligomer or polymer according to claim 3 wherein at least one R^1 , R^2 , R^3 and R^4 is different from at least one other of R^1 , R^2 , R^3 and R^4 .

- 5. (Cancelled)
- 6. (Cancelled)
- 7. (Currently Amended) An oligomer or polymer according to <u>claim 6 claim 1</u>, wherein the second repeat unit is selected from optionally substituted aryl, heteroaryl and triarylamine repeat units.

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8. (Previously presented) An optionally substituted monomer of formula (Im):

wherein R¹, R², R³ and R⁴, which may be the same or different, are independently selected from hydrogen or a substituent and two or more of R¹, R², R³ and R⁴ may be linked to form a ring; and each P represents a polymerisable group.

- 9. (Previously presented) A monomer according to claim 8 wherein each P represents a leaving group capable of participating in a polycondensation mediated by a metal of variable oxidation state.
- 10. (Previously presented) A monomer according to claim 9 wherein each P is independently selected from halogen; a moiety of formula -O-SO₂-Z wherein Z is selected from the group consisting of optionally substituted alkyl and aryl; or a reactive boron group selected from a boronic acid, a boronic ester or a borane.
- 11. (Previously presented) A process for preparing an oligomer or polymer comprising the step of oligomerising or polymerising a monomer according to claim 8.

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catalyst.

12. (Previously presented) A process for preparing an oligomer or polymer according to claim 11 wherein each P is independently a halogen or a moiety of formula -O-SO₂-Z, and the monomer of formula (Im) is oligomerised or polymerised in the presence of a nickel complex

13. (Previously presented) A process for preparing a polymer according to claim 11 wherein the monomer of formula (Im) is oligomerised or polymerised with a second aromatic monomer in the presence of a palladium complex catalyst and a base and

- a. each P is the same or different and comprises a reactive boronic group and the second monomer comprises two reactive groups independently selected from halogen and a moiety of formula -O-SO₂-Z, or
- b. each P independently comprises a halogen or a moiety of formula -O-SO₂-Z and the second monomer comprises two reactive boron groups which are the same or different.
- 14. (Previously presented) A process for preparing an oligomer or polymer according to claim 11, wherein one P is a reactive boron group and the other P is a halogen or a moiety of formula -O-SO₂-Z.
- 15. (Withdrawn) An optical device comprising an oligomer or polymer according to claim 1.
- 16. (Withdrawn) An optical device according to claim 15 wherein the oligomer or polymer is located between a first electrode for injection of charge carriers of a first type and a second electrode for injection of charge carriers of a second type.
- 17. (Withdrawn) A switching device comprising an oligomer or polymer according to claim 1.
- 18. (Withdrawn) A field effect transistor comprising an insulator having a first side and a second side; a gate electrode located on the first side of the insulator; an oligomer or polymer

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according to claim 1 located on the second side of the insulator; and a drain electrode and a source electrode located on the oligomer or polymer.

- 19. (Withdrawn) An integrated circuit comprising a field effect transistor according to claim18.
- 20-25. (Cancelled)
- 26. (New) A polymer comprising an optionally substituted first repeat unit of formula (Ir):

$$R^1$$
 R^2 R^3 R^4 (Ir)

wherein R¹, R², R³ and R⁴, which may be the same or different, are independently selected from hydrogen or a substituent and two or more of R¹, R², R³ and R⁴ may be linked to form a ring and the oligomer or polymer comprises a second repeat unit.